

L170470

PATENT SPECIFICATION

DRAWINGS ATTACHED

L170,470



Date of Application (No. 54776/67) and filing Complete Specification: 1 Dec., 1967.

Application made in Germany (No. K61995 III/33a) on 13 April, 1967.

Complete Specification Published: 12 Nov., 1969.

Index at acceptance:—A4 P2; A4 G(5B, 5K)

International Classification:—A 45 b 25/24

COMPLETE SPECIFICATION

Improvements in or relating to Cases for Umbrellas

I, PAUL KRAFT of Am Linsenbrunnen 1, Geislingen/Steige, Germany, of German Nationality, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to umbrella casings and is particularly concerned with a casing for an umbrella as described and claimed in British Patent No. 1,133,512.

Although the ribs and struts of such an umbrella, which has a rectangular cross-section in the folded state, are located in position by means of their attachment to the top or to the slider and auxiliary slider respectively and with the free ends in the handle in the folded state, these ribs and struts, to which the cover of the umbrella is attached, are inclined to splay out to a certain extent. This is caused by the cover of the umbrella not being equally spread between the ribs and struts and by air which is trapped in folding the cover and which does not completely escape from the cover even when this is made of air-permeable material, such as, woven textiles, e.g. silk or plastics materials.

This splaying out of the roof ribs and struts results in bulkiness, after the umbrella has been put into its casing and thus leads to an undesired thickening of the folded umbrella.

The object of the invention is to produce a casing for umbrellas of rectangular cross-sectional shape in the folded state in such a way that after the collapsed umbrella is put in the casing, it maintains its flat somewhat rectangular form in longitudinal and transverse section in spite of the splaying out of the roof ribs and struts.

According to this invention an umbrella casing for a pocket umbrella of the type described and claimed in British Patent 1,133,512, comprises a box-like structure having two broad sides and two narrow sides closed at one end and open at the other and a fastening device extending partially along one of the narrow sides, the internal dimensions of the

closed casing being such as to prevent splaying of the ribs of and maintain the rectangular shape of an umbrella inserted in the open end.

With pocket umbrellas of circular cross-section, the casing may be in the form of a simple tube and the fastener can be positioned anywhere on the circumference of the tube as the forces produced by the splaying of the ribs and struts are equally spaced. However, with cases for umbrellas of rectangular cross-section, the forces due to the splaying of the ribs tend to act mainly on the broad faces. Thus, positioning the fastener on one of the broad faces would cause difficulty in closing the fastener, or alternatively using a larger casing than was necessary. Positioning of the fastener on one of the narrow sides, however, overcomes this difficulty and allows a size of casing to be used that will prevent the ribs and struts from splaying without causing difficulty of closing the fastener.

The invention will be more readily understood from the following description taken in conjunction with the accompanying drawings in which:

Fig. 1 shows a view of the casing according to the invention, enclosing a collapsible umbrella with a rectangular cross-sectional shape;

Fig. 2 shows a cross-section on II—II of Fig. 1.

The casing 1 according to Fig. 1 consists of woven fabric or plastics material and is shown in its closed position, enclosing a collapsible pocket umbrella with a rectangular cross-sectional shape in its folded state. Of the parts of the pocket umbrella, only the handle 3 which protrudes from an open end of the casing 1 is recognizable. A fastener 4 for the casing 1 is disposed on one of the two narrow longitudinal sides 5, 6 of the casing. The lower boundary line of the mushroom head which is formed by telescopically collapsing a pocket umbrella due to the folding of the cover is shown at 8.

As is apparent from Fig. 2, with the closing

of this fastener 4, a tension is exerted on the material of the casing 1 in the direction of the arrows and provides the optimum compression of the collapsed umbrella, especially along the two broad sides. This effect is intensified when the fastener 4, as shown in Figs. 1 and 2, has the same width *b* as the narrow sides 5, 6 of the casing 1.

The fastener 4 only extends along 40 to 70% of the length of the casing from the open end. This has the advantage that the shape of the casing is also retained, when the fastener is opened.

15 WHAT WE CLAIM IS:—

1. An umbrella casing for a pocket umbrella of the type described and claimed in British Patent 1,133,512 comprising a box-like structure having two broad sides and two narrow sides closed at one end and open at the other and a fastening device extending partially along one of the narrow sides, the internal dimensions of the closed casing being such as to prevent

splaying of the ribs of and maintain the rectangular shape of an umbrella inserted in the open end.

2. A casing according to claim 1, in which the fastener only extends along 40% to 70% of the length of the casing from the opening of the casing.

3. A casing according to claim 1 or 2, in which the fastener has the same breadth as the narrow longitudinal sides of the casing.

4. An umbrella casing for a pocket umbrella of the type described and claimed in British Patent 1,133,512, substantially as hereinbefore described with reference to the accompanying drawing.

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1. An umbrella casing for a pocket umbrella of the type described and claimed in British Patent 1,133,512 comprising a box-like structure having two broad sides and two narrow sides closed at one end and open at the other and a fastening device extending partially along one of the narrow sides, the internal dimensions of the closed casing being such as to prevent splaying of the ribs of and maintain the rectangular shape of an umbrella inserted in the open end.
 2. A casing according to claim 1, in which the fastener only extends along 40% to 70% of the length of the casing from the opening of the casing.
 3. A casing according to claim 1 or 2, in which the fastener has the same breadth as the narrow longitudinal sides of the casing.
 4. An umbrella casing for a pocket umbrella of the type described and claimed in British Patent 1,133,512, substantially as hereinbefore described with reference to the accompanying drawing.

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